



RESULT 2  
US-09-880-371-13  
; Sequence 13, Application US/09880371  
; Patent No. US20020059658A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Derocher, Jay  
; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC  
; FILE REFERENCE: 21829/91  
; CURRENT APPLICATION NUMBER: US/09/880,371  
; CURRENT FILING DATE: 2001-06-13  
; PRIOR APPLICATION NUMBER: 60/211,585  
; PRIOR FILING DATE: 2000-06-15  
; NUMBER OF SEQ ID NOS: 16  
; SOFTWARE: Patent in Ver. 2.1  
; SEQ ID NO 13  
; LENGTH: 114  
; TYPE: PRT  
; ORGANISM: Xanthomonas campestris  
US-09-880-371-13

*-this sequence is not in this appl.*

Query Match 100.0%; Score 584; DB 9; Length 114;  
Best Local Similarity 100.0%; Pred. No. 1.5e-53;  
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MDSIGNNFSNIGNLQTMGIGPQOHEHDSQQSPSAGSEQQDQLLAFIMMMLQQSQGSDA 60  
Db 1 MDSIGNNFSNIGNLQTMGIGPQOHEHDSQQSPSAGSEQQDQLLAFIMMMLQQSQGSDA 60  
QY 61 NQSCGNEQPQNGQOEGLSPLTQMLQIVMQLMONGGAGMGCGGGSVNSSLGNA 114  
Db 61 NQSCGNEQPQNGQOEGLSPLTQMLQIVMQLMONGGAGMGCGGGSVNSSLGNA 114

RESULT 3  
US-09-829-124-2  
; Sequence 2, Application US/09829124  
; Patent No. US20020066122A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Swanson, Shane S.  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FROM XANTHOMAS  
; FILE REFERENCE: 21829/101  
; CURRENT APPLICATION NUMBER: US/09/829,124  
; CURRENT FILING DATE: 2001-04-09  
; PRIOR APPLICATION NUMBER: 60/224,053  
; PRIOR FILING DATE: 2000-08-09  
; PRIOR APPLICATION NUMBER: 09/412,452  
; PRIOR FILING DATE: 1999-10-04  
; PRIOR APPLICATION NUMBER: 60/103,124  
; PRIOR FILING DATE: 1998-10-05  
; NUMBER OF SEQ ID NOS: 6  
; SOFTWARE: Patent in Ver. 2.1  
; SEQ ID NO 2  
; LENGTH: 114  
; TYPE: PRT  
; ORGANISM: Xanthomonas campestris  
US-09-829-124-2

Query Match 100.0%; Score 584; DB 9; Length 114;  
Best Local Similarity 100.0%; Pred. No. 1.5e-53;  
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MDSIGNNFSNIGNLQTMGIGPQOHEHDSQQSPSAGSEQQDQLLAFIMMMLQQSQGSDA 60  
Db 1 MDSIGNNFSNIGNLQTMGIGPQOHEHDSQQSPSAGSEQQDQLLAFIMMMLQQSQGSDA 60  
QY 61 NQSCGNEQPQNGQOEGLSPLTQMLQIVMQLMONGGAGMGCGGGSVNSSLGNA 114  
Db 61 NQSCGNEQPQNGQOEGLSPLTQMLQIVMQLMONGGAGMGCGGGSVNSSLGNA 114

RESULT 4  
US-10-010-390-13  
; Sequence 13, Application US/10010390  
; Publication No. US20030104979A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Leon, Ernesto  
; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED  
; FILE REFERENCE: 21829/111  
; CURRENT APPLICATION NUMBER: US/10/010,390  
; CURRENT FILING DATE: 2001-11-05  
; PRIOR APPLICATION NUMBER: 60/248,169  
; PRIOR FILING DATE: 2000-11-13  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: Patent in Ver. 2.1  
; SEQ ID NO 13  
; LENGTH: 114  
; TYPE: PRT  
; ORGANISM: Xanthomonas campestris  
US-10-010-390-13

Query Match 100.0%; Score 584; DB 14; Length 114;  
Best Local Similarity 100.0%; Pred. No. 1.5e-53;  
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MDSIGNNFSNIGNLQTMGIGPQOHEHDSQQSPSAGSEQQDQLLAFIMMMLQQSQGSDA 60  
Db 1 MDSIGNNFSNIGNLQTMGIGPQOHEHDSQQSPSAGSEQQDQLLAFIMMMLQQSQGSDA 60  
QY 61 NQSCGNEQPQNGQOEGLSPLTQMLQIVMQLMONGGAGMGCGGGSVNSSLGNA 114  
Db 61 NQSCGNEQPQNGQOEGLSPLTQMLQIVMQLMONGGAGMGCGGGSVNSSLGNA 114

RESULT 5  
US-10-174-209-37  
; Sequence 37, Application US/10174209  
; Publication No. US20030177526A1  
; GENERAL INFORMATION:  
; APPLICANT: Song, Xiaoling  
; APPLICANT: Barloia, Pauline A.  
; APPLICANT: Linderth, No. US20030177526A1  
; APPLICANT: Fan, Hao  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: RECEPTORS FOR HYPERSENSITIVE RESPONSE ELICITORS AND  
; FILE REFERENCE: 21829/211  
; CURRENT APPLICATION NUMBER: US/10/174,209  
; CURRENT FILING DATE: 2002-06-17  
; PRIOR APPLICATION NUMBER: 60/335,776  
; PRIOR FILING DATE: 2001-10-31  
; PRIOR APPLICATION NUMBER: 09/810,997  
; PRIOR FILING DATE: 2001-03-16  
; NUMBER OF SEQ ID NOS: 86  
; SOFTWARE: Patent in Ver. 2.1  
; SEQ ID NO 37  
; LENGTH: 114  
; TYPE: PRT  
; ORGANISM: Xanthomonas campestris pv. pelargonii  
US-10-174-209-37

Query Match 100.0%; Score 584; DB 14; Length 114;  
Best Local Similarity 100.0%; Pred. No. 1.5e-53;  
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MDSIGNNFSNIGNLQTMGIGPQOHEHDSQQSPSAGSEQQDQLLAFIMMMLQQSQGSDA 60  
Db 1 MDSIGNNFSNIGNLQTMGIGPQOHEHDSQQSPSAGSEQQDQLLAFIMMMLQQSQGSDA 60







GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 23, 2004, 11:38:02 ; Search time 294 Seconds  
(without alignments)  
5329.022 Million cell updates/sec

Title: US-09-829-124-1

Perfect score: 342  
Sequence: 1 atgactctatcgaaacaa.....gcagcctggcggaacgccc 342

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 3017426 seqs, 2290544650 residues

Total number of hits satisfying chosen parameters: 6034852

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:\*

1: /cgn2\_6/ptodata/1/pubna/US07\_PUBCOMB.seq:  
2: /cgn2\_6/ptodata/1/pubna/PCT\_NEW\_PUB.seq:  
3: /cgn2\_6/ptodata/1/pubna/US06\_NEW\_PUB.seq:  
4: /cgn2\_6/ptodata/1/pubna/US06\_PUBCOMB.seq:  
5: /cgn2\_6/ptodata/1/pubna/US07\_NEW\_PUB.seq:  
6: /cgn2\_6/ptodata/1/pubna/US07\_PUBCOMB.seq:  
7: /cgn2\_6/ptodata/1/pubna/US08\_NEW\_PUB.seq:  
8: /cgn2\_6/ptodata/1/pubna/US08\_PUBCOMB.seq:  
9: /cgn2\_6/ptodata/1/pubna/US09\_PUBCOMB.seq:  
10: /cgn2\_6/ptodata/1/pubna/US09\_PUBCOMB.seq:  
11: /cgn2\_6/ptodata/1/pubna/US09\_PUBCOMB.seq:  
12: /cgn2\_6/ptodata/1/pubna/US09\_PUBCOMB.seq:  
13: /cgn2\_6/ptodata/1/pubna/US09\_PUBCOMB.seq:  
14: /cgn2\_6/ptodata/1/pubna/US10A\_PUBCOMB.seq:  
15: /cgn2\_6/ptodata/1/pubna/US10B\_PUBCOMB.seq:  
16: /cgn2\_6/ptodata/1/pubna/US10C\_PUBCOMB.seq:  
17: /cgn2\_6/ptodata/1/pubna/US10\_NEW\_PUB.seq:  
18: /cgn2\_6/ptodata/1/pubna/US60\_NEW\_PUB.seq:  
19: /cgn2\_6/ptodata/1/pubna/US60\_PUBCOMB.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	342	100.0	342	9	US-09-810-997-8
2	342	100.0	342	9	US-09-880-371-14
3	342	100.0	342	9	US-09-880-371-15
4	342	100.0	342	9	US-09-829-124-1
5	342	100.0	342	15	US-10-010-390-14
6	342	100.0	342	15	US-10-174-209-38
7	342	100.0	408	9	US-09-829-124-6
8	43.2	12.6	816	16	US-10-369-493-31605
9	40.2	11.8	1053	16	US-10-369-493-40458
10	39.6	11.6	2109	13	US-10-425-114-35590
11	39	11.4	1206	16	US-10-260-238-4340
12	38	11.1	3121	10	US-09-866-034-6
13	38	11.1	3121	13	US-10-211-858-65
14	38	11.1	3121	14	US-10-033-246-6

15	38	11.1	3121	14	US-10-033-301-6	Sequence 6, Appli
16	38	11.1	3121	14	US-10-033-326-6	Sequence 6, Appli
17	38	11.1	3121	14	US-10-033-245-6	Sequence 6, Appli
18	38	11.1	3121	14	US-10-033-223-6	Sequence 6, Appli
19	38	11.1	3121	14	US-10-033-167-6	Sequence 6, Appli
20	38	11.1	3121	14	US-10-033-244-6	Sequence 6, Appli
21	38	11.1	3121	15	US-10-033-435-6	Sequence 6, Appli
22	38	11.1	3121	15	US-10-032-990-6	Sequence 6, Appli
23	38	11.1	3121	15	US-10-032-996-6	Sequence 6, Appli
24	38	11.1	3121	15	US-10-033-396-6	Sequence 6, Appli
25	38	11.1	3121	15	US-10-210-951-65	Sequence 65, Appli
26	38	11.1	3121	15	US-10-311-884-65	Sequence 65, Appli
27	38	11.1	3121	16	US-10-439-249-6	Sequence 6, Appli
28	38	11.1	4292	17	US-10-287-226-313	Sequence 313, App
29	37.6	11.0	1035	9	US-09-086-118-28	Sequence 28, Appli
30	37.6	11.0	1035	9	US-09-835-684-12	Sequence 12, Appli
31	37.6	11.0	1035	9	US-09-860-371-12	Sequence 12, Appli
32	37.6	11.0	1035	9	US-09-879-248-16	Sequence 16, Appli
33	37.6	11.0	1035	9	US-09-770-693-8	Sequence 8, Appli
34	37.6	11.0	1035	9	US-09-766-348-8	Sequence 8, Appli
35	37.6	11.0	1035	15	US-10-034-158-8	Sequence 8, Appli
36	37.6	11.0	1035	15	US-10-010-390-12	Sequence 12, Appli
37	37.6	11.0	1035	15	US-10-387-806-28	Sequence 28, Appli
38	37.6	11.0	1035	16	US-10-441-736-16	Sequence 16, Appli
39	37.6	11.0	2925	16	US-10-260-238-1180	Sequence 1180, Ap
C 40	37.4	10.9	918	15	US-10-144-678A-1027	Sequence 1027, Ap
C 41	37.4	10.9	918	15	US-10-294-025-1027	Sequence 1027, Ap
42	37.4	10.9	1577	13	US-10-425-114-28870	Sequence 28870, A
43	37.4	10.9	2368	16	US-10-342-844-99	Sequence 99, Appli
44	37.2	10.9	574	10	US-09-764-891-1497	Sequence 1497, Ap
C 45	37.2	10.9	1071	13	US-10-424-599-108603	Sequence 108603,

#### ALIGNMENTS

#### RESULT 1

US-09-810-997-8  
; Sequence 8, Application US/09810997  
; Patent No. US20020007501A1  
; GENERAL INFORMATION:  
; APPLICANT: Song, Xiaoling  
; APPLICANT: Fan, Hao  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: RECEPTORS FOR HYPERSENSITIVE RESPONSE ELICITORS AND  
; TITLE OF INVENTION: USES THEREOF  
; FILE REFERENCE: 21829/62  
; CURRENT APPLICATION NUMBER: US/09/810.997  
; CURRENT FILING DATE: 2001-03-16  
; PRIOR APPLICATION NUMBER: 60/191,649  
; PRIOR FILING DATE: 2000-03-23  
; PRIOR APPLICATION NUMBER: 60/250,710  
; PRIOR FILING DATE: 2000-12-01  
; NUMBER OF SEQ ID NOS: 9  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 8  
; LENGTH: 342  
; TYPE: DNA  
; ORGANISM: Xanthomonas campestris pv. pelargonii  
US-09-810-997-8

Query Match 100.0%; Score 342; DB 9; Length 342;

Best Local Similarity 100.0%; Pred. No. 6.9e-94; Mismatches 0; Indels 0; Gaps 0;

Matches 342; Conservative 0; Indels 0; Gaps 0;

QY 1 ATGGACTCTATCGGAAACAACTTTTCGAATATCGGCAACCTTGCAGACCATGGGCATCGGG 60

Db 1 ATGGACTCTATCGGAAACAACTTTTCGAATATCGGCAACCTTGCAGACCATGGGCATCGGG 60

QY 61 CCTCAGCAACAGGAGACTCCAGCAGCAGCTTGGCTGGCTCCGAGCAGCAGCTG 120

Db 61 CCTCAGCAACAGGAGACTCCAGCAGCAGCTTGGCTGGCTCCGAGCAGCAGCTG 120

Qy	121	GATCAGTGTGCTCGCCATGTTTCA	TATGATGATGATGCTGTGCAACAGAGCAGCAGGGCAGCGATGCA	180
Db	121	GATCAGTGTGCTCGCCATGTTTCA	TATGATGATGATGCTGTGCAACAGAGCAGCAGGGCAGCGATGCA	180
Qy	181	RATCAGGAGTGTGGCAACGAAACCCAGAACCGTCTCAACAGAGAACGGCTGAGTCCGTTG	240	
Db	181	AATCAGGAGTGTGGCAACGAAACCCAGAACCGTCTCAACAGAGAGGCTTGA	TCCGTTG 240	
Qy	241	ACGCAGATGCTGATCGAGATCGTGATGTCAGAACAGAGGCGCGCCGGCAGTG	300	
Db	241	ACGCAGATGCTGATCGAGATCGTGATGTCAGAACAGAGGCGCGCCGGCAGTG	300	
Qy	301	GGCGGTGGCGGTTTGGTCAACAGCAGCGCTGGCGGCAACGCC	342	
Db	301	GGCGGTGGCGGTTTGGTCAACAGCAGCGCTGGCGGCAACGCC	342	

## RESULT 2

```

US-09-880-371-14
; Sequence 14, Application US/09880371
; Patent No. US20020059658A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: DeRocher, Jay
; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC
; TITLE OF INVENTION: PLANTS
; FILE REFERENCE: 21829/91
; CURRENT APPLICATION NUMBER: US/09/880,371
; CURRENT FILING DATE: 2001-05-13
; PRIOR APPLICATION NUMBER: 60/211,585
; PRIOR FILING DATE: 2000-06-15
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 14
; LENGTH: 342
; TYPE: DNA
; ORGANISM: Xanthomonas campestris
US-09-880-371-14

```

Query Match	100.0%	Score 342;	DB 9;	Length 342;
Best Local Similarity	100.0%;	Pred. NO. 6.9e-94;		
Matches 342;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	ATGGACTCTATCGCGAACAACATTTTTCGAATATCGCGAACCTCGACAGCATGGCATCGGG	60	
DBb				
QY	1	ATGGACTCTATCGCGAACAACATTTTTCGAATATCGCGAACCTCGACAGCATGGCATCGGG	60	
DBb				
QY	61	CCTCAGCAACACGAGGACTCTCAGCCAGCAGCTTCGGCTGGCTCCGAGCAGCAGCTG	120	
DBb				
QY	61	CCTCAGCAACACGAGGACTCTCAGCCAGCAGCTTCGGCTGGCTCCGAGCAGCAGCTG	120	
DBb				
QY	121	GATCAGTTGCTCGCCATGTTTCATCATGATGATGCTCAACAGAGCCAGCGCATGCA	180	
DBb				
QY	121	GATCAGTTGCTCGCCATGTTTCATCATGATGATGCTCAACAGAGCCAGCGCATGCA	180	
DBb				
QY	181	AATCAGGAGTGTGCGACGACGACAAACCGCAGAACGGTCAACAGAGAGGCTGAGTCCGTTG	240	
DBb				
QY	181	AATCAGGAGTGTGCGACGACGACAAACCGCAGAACGGTCAACAGAGAGGCTGAGTCCGTTG	240	
DBb				
QY	241	ACGCAGATGCTGATGTCAGATGCTGATGATGATGATGATGATGATGATGATGATGATG	300	
DBb				
QY	241	ACGCAGATGCTGATGTCAGATGCTGATGATGATGATGATGATGATGATGATGATGATG	300	
DBb				
QY	301	GGCGGTGGCGGTTTCGGTCAACAGCAGCGCTGGCGGCAACGCC	342	
DBb				
QY	301	GGCGGTGGCGGTTTCGGTCAACAGCAGCGCTGGCGGCAACGCC	342	
DBb				

PRESENT, T 3

US-09-880-371-15  
; Sequence 15, Application US/09880371  
; Patent No. US20020059658A1  
; GENERAL INFORMATION:

```

; APPLICANT: Wei, Zhong-Min
; APPLICANT: Derocher, Jay
; TITLE OF INVENTION: METHODS
; OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC
; PLANTS
; FILE REFERENCE: 21829/91
; CURRENT APPLICATION NUMBER: US/09/880,371
; CURRENT FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: 60/211,585
; PRIOR FILING DATE: 2000-06-15
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 15
; LENGTH: 342
; TYPE: DNA
; ORGANISM: Nicotiana tabacum
; US-09-880-371-15

```

Query Match	100.0%;	Score 342;	DB 9;	Length 342;
Best Local Similarity	100.0%;	Pred. No. 6.9e-94;		
Matches 342;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

  

Qy	1	ATGGAGCTCTATCGGAACAACTTTTCGATATCGGCAACTGCAGACGATGGGCATCGGG	60
Db	1		
Qy	61	CCTCAGCAACACAGAGGACTCCAGCCAGCAGTCGCTTTCGGCTGGCTCCGAGCAGCAGGTG	120
Db	61		
Qy	121	GATCAGTTGCTGCCATGTGTTTCATCATGATGATGTCGAAACAGAGCCAGGGCAGCGATGCA	180
Db	121		
Qy	181	AATCAGGAGTGTGGCAACGNAACCGCAGAACGGTCAACAGGAGAGCCTTGAGTCCGGTTG	240
Db	181		
Qy	241	ACGCAGATGCTGATCGAGATCGTGATGCGAGCTCATGACAGAACCGGCGCGCGCATG	300
Db	241		
Qy	301	GGCGGTGGGGTTTCGTTCAACAGAGCGCTGGGCGGGCAACGCC	342
Db	301		

## RESIST 4

```

US-09-829-124-1
: Sequence 1, Application US/09829124
: Patent No. US200206612A1
: GENERAL INFORMATION:
: APPLICANT: Wei, Zhong-Min
: APPLICANT: Swanson, Shane S.
: APPLICANT: Fan, Hao
: TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FROM XANTHOMONAS
: TITLE OF INVENTION: CAMPESTRIS
: FILE REFERENCE: 21829/101
: CURRENT APPLICATION NUMBER: US/09/829,124
: CURRENT FILING DATE: 2001-04-09
: PRIOR APPLICATION NUMBER: 60/224,053
: PRIOR FILING DATE: 2000-08-09
: PRIOR APPLICATION NUMBER: 09/412,452
: PRIOR FILING DATE: 1999-10-04
: PRIOR APPLICATION NUMBER: 60/103,124
: PRIOR FILING DATE: 1998-10-05
: NUMBER OF SEQ ID NOS: 6
: SOFTWARE: Patentin Ver. 2.1
: SEQ ID NO 1
: LENGTH: 342
: TYPE: DNA
: ORGANISM: Xanthomonas campestris
US-09-829-124-1

```

```

Db      241  ACCGAGATGCTGATGAGATCGTGATGCGAGCTGATGCGAGACCGGCGCGCGCATG 300
Qy      301  GCGCGTGGCGTTCGCTCAACAGCAGCCTGGCGGCGCAACGCC 342
Db      301  GCGCGTGGCGTTCGCTCAACAGCAGCCTGGCGGCGCAACGCC 342

RESULT 6
US-10-174-209-38
; Sequence 38, Application US/10174209
; Publication No. US20030177526A1
; GENERAL INFORMATION:
; APPLICANT: Song, Xiaoling
; APPLICANT: Bariola, Pauline A.
; APPLICANT: Linderroth, No. US20030177526A1 A.
; APPLICANT: Pan, Hao
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: RECEPTORS FOR HYPERSENSITIVE RESPONSE ELICITORS AND
; TITLE OF INVENTION: USES THEREOF
; FILE REFERENCE: 21829/211
; CURRENT APPLICATION NUMBER: US/10/174,209
; CURRENT FILING DATE: 2002-06-17
; PRIOR APPLICATION NUMBER: 60/335,776
; PRIOR FILING DATE: 2001-10-31
; PRIOR APPLICATION NUMBER: 09/810,997
; PRIOR FILING DATE: 2001-03-16
; NUMBER OF SEQ ID NOS: 66
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 38
; LENGTH: 342
; TYPE: DNA
; ORGANISM: Xanthomonas campestris pv. pelargonii
US-10-174-209-38

```

```

; ; SEQ ID NO 38
; ; LENGTH: 342
; ; TYPE: DNA
; ; ORGANISM: Xanthomonas campestris pv. pelargonii
US-10-174-209-38

Query Match      100.0%; Score 342; DB 15; Length 342;
Best Local Similarity 100.0%; Pred. No. 6.9e-94; Indels 0; Gaps 0;
Matches 342; Conservative 0; Mismatches 0;

Qy   1 ATGGAATCTATCGGAACAACTTTTCGAATATCGGCAACTGCAGACGATGGCATCGGG 60
Db   1 ATGGAATCTATCGGAACAACTTTTCGAATATCGGCAACTGCAGACGATGGCATCGGG 60

Qy   61 CCTCAGCAACA CAGAGACTCCAGCCAGCAGTGCCTTCGGTGCTCCGACGACGAGCTG 120
Db   61 CCTCAGCAACA CAGAGACTCCAGCCAGCAGTGCCTTCGGTGCTCCGACGACGAGCTG 120

Qy   121 GATCAGTTGCTGCCATGTTCATCATGATGATCTCTGCAA CAGACCAGGCGACGCGATGCA 180
Db   121 GATCAGTTGCTGCCATGTTCATCATGATGATCTCTGCAA CAGACCAGGCGACGCGATGCA 180

Qy   181 AATCAGAGGTGTGGCAACGAA CAACCGCAGAACGGTCAACAGGAAGCCTGAGTCGGTTG 240
Db   181 AATCAGAGGTGTGGCAACGAA CAACCGCAGAACGGTCAACAGGAAGCCTGAGTCGGTTG 240

Qy   241 ACCGAGATGCTGATGCAGATCGTGATGCAGCTGATGCAGAAC CAGGCGCGCGCGCATG 300
Db   241 ACCGAGATGCTGATGCAGATCGTGATGCAGCTGATGCAGAAC CAGGCGCGCGCGCATG 300

Qy   301 GGCGGTGGCGGTTTGGTCAACAGCACGCTCGGGCGGCAACGCC 342
Db   301 GGCGGTGGCGGTTTGGTCAACAGCACGCTCGGGCGGCAACGCC 342

```

[illegible]



```

; TITLE OF INVENTION: CAMPESTRIS
; FILE REFERENCE: 21829/101
; CURRENT APPLICATION NUMBER: US/09/829,124
; PRIORITY FILING DATE: 2001-04-09
; PRIOR APPLICATION NUMBER: 60/224,053
; PRIOR FILING DATE: 2000-08-09
; PRIOR APPLICATION NUMBER: 09/412,452
; PRIOR FILING DATE: 1999-10-04
; PRIOR APPLICATION NUMBER: 60/103,124
; PRIOR FILING DATE: 1998-10-05
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 408
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: probe
US-09-829-124-6

Query Match      100.0%; Score 342; DB 9; Length 408;
Best Local Similarity 100.0%; Pred. No. 7.3e-94;
Matches 342; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGGACTCTATCGGAACCAACTTTTCGAATATCGCAACTGTCACACGATGGGCAATCGGG 60
DB 53 ATGGACTCTATCGGAACCAACTTTTCGAATATCGCAACTGTCACACGATGGGCAATCGGG 112
QY 61 CTTAGCAACACGAGGACTCCAGCCAGCAGTCCCTTGGTGGTCCGAGCAGAGCTG 120
DB 113 CTTAGCAACACGAGGACTCCAGCCAGCAGTCCCTTGGTGGTCCGAGCAGAGCTG 172
QY 121 GATCAGTTGCTCGCATCTTCATCATGATGCTGCAACGAGCAGCAGGCGGAGCATGCA 180
DB 173 GATCAGTTGCTCGCATCTTCATCATGATGCTGCAACGAGCAGCAGGCGGAGCATGCA 232
QY 181 AATCAGGAGTGTGGCAACCAACCGCAGAACGCTCAACAGAGAGGCTTGAGTCCGTTG 240
DB 233 AATCAGGAGTGTGGCAACCAACCGCAGAACGCTCAACAGAGAGGCTTGAGTCCGTTG 292
QY 241 AGCAGATGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 300
DB 293 AGCAGATGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 352
QY 301 GCGGCTGGCGGTTCCGTCACACGAGCCTTGGGCGGCAACGCC 342
DB 353 GCGGCTGGCGGTTCCGTCACACGAGCCTTGGGCGGCAACGCC 394

RESULT 8
US-10-369-493-31605
; Sequence 31605, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; PRIOR FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 31605
; LENGTH: 816
; TYPE: DNA
; ORGANISM: Rhodobacter sphaeroides
US-10-369-493-31605

Query Match      100.0%; Score 342; DB 9; Length 408;
Best Local Similarity 100.0%; Pred. No. 7.3e-94;
Matches 342; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGGACTCTATCGGAACCAACTTTTCGAATATCGCAACTGTCACACGATGGGCAATCGGG 60
DB 53 ATGGACTCTATCGGAACCAACTTTTCGAATATCGCAACTGTCACACGATGGGCAATCGGG 112
QY 61 CTTAGCAACACGAGGACTCCAGCCAGCAGTCCCTTGGTGGTCCGAGCAGAGCTG 120
DB 113 CTTAGCAACACGAGGACTCCAGCCAGCAGTCCCTTGGTGGTCCGAGCAGAGCTG 172
QY 121 GATCAGTTGCTCGCATCTTCATCATGATGCTGCAACGAGCAGCAGGCGGAGCATGCA 180
DB 173 GATCAGTTGCTCGCATCTTCATCATGATGCTGCAACGAGCAGCAGGCGGAGCATGCA 232
QY 181 AATCAGGAGTGTGGCAACCAACCGCAGAACGCTCAACAGAGAGGCTTGAGTCCGTTG 240
DB 233 AATCAGGAGTGTGGCAACCAACCGCAGAACGCTCAACAGAGAGGCTTGAGTCCGTTG 292
QY 241 AGCAGATGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 300
DB 293 AGCAGATGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 352
QY 301 GCGGCTGGCGGTTCCGTCACACGAGCCTTGGGCGGCAACGCC 342
DB 353 GCGGCTGGCGGTTCCGTCACACGAGCCTTGGGCGGCAACGCC 394

RESULT 8
US-10-369-493-31605
; Sequence 31605, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2003-02-28
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 31605
; LENGTH: 816
; TYPE: DNA
; ORGANISM: Rhodobacter sphaeroides
US-10-369-493-31605

Query Match      12.6%; Score 43.2; DB 16; Length 816;
Best Local Similarity 56.2%; Pred. No. 0.0059;
Matches 81; Conservative 0; Mismatches 63; Indels 0; Gaps 0;

QY 198 CGAACAACCGCAGAACCGTCAACAGGAAGGCGCTGAGTCCGTTGACGAGATGCTGATGCA 257
DB 423 CGATCTGGACCAAGATCAACCGGCTGACCGCGGAGACCGCGGTGAGCGGCTGCTGAACCA 482
QY 258 GATCGTATGACGATGATGACAGAACCGAGGCGGCGGCGGAGTGGCGGTTGGT 317
DB 483 GATCGAGTGCATCCGATGCTGACAGCAGGCGGAGCTGCGGCGGCGCATGCGCAGCGCGG 542
QY 318 CACAGCAGACTGGCGGCAACGC 341
DB 543 CATGTCACCAAGAGCTGGAGCCC 566

RESULT 9
US-10-369-493-40458
; Sequence 40458, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; PRIOR FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 40458
; LENGTH: 1053
; TYPE: DNA
; ORGANISM: Caulobacter crescentus
US-10-369-493-40458

Query Match      11.8%; Score 40.2; DB 16; Length 1053;
Best Local Similarity 48.9%; Pred. No. 0.052;
Matches 108; Conservative 0; Mismatches 113; Indels 0; Gaps 0;

QY 44 AGACGATGGGCGATCGGCGCTCAGCAACACGAGGAGTCCAGCCAGCAGTCCGCTTCGGGTG 103
DB 275 AGCGATGGAGCTGTTCCGCAACTGCTGCTCGGCTTATGCTTCGAGGCCCTGCGCGCG 334
QY 104 GTCGAGCAGCAGCTGGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 163
DB 335 CTTCCAGCCTCAAGCGGAGCTGCTTCGCGGCTTGGACATCATGTTCTGCGGCAACTGG 394
QY 164 GCCAGGCGCAGATGCAAAATCAGGAGTGTGCAACGAGAACCAACCGCAAGAGCTGGCCG 223
DB 395 TGGCGGCGGCTATTTCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 454
QY 224 AAGCCTGAGTCCGTTGACCGCAGATGATGATGATGATGATGATGATGATGATGATG 264
DB 455 AGGCTTCGACACCGAGTCTATACGACCGAGATCGAG 495

RESULT 10
US-10-425-114-35590
; Sequence 35590, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E.
; APPLICANT: Cao, Yongwei
US-10-425-114-35590
```

```
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 35590
; LENGTH: 2109
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: UC-ZMROB73061A09_FLI
US-10-425-114-35590

Query Match      11.6%; Score 39.6; DB 13; Length 2109;
Best Local Similarity 46.4%; Pred. No. 0.099;
Matches 129; Conservative 0; Mismatches 149; Indels 0; Gaps 0;

QY 57 CGGGCCCTCAGCAACACGAGACTCCAGCCAGCAGTCCGCTCGGCTCGGCTCGGAGCAGCA 116
Db 887 CGCGCTGGCGCTGGACCCCGCTCCATCCCGCGCTGCGAGCGCGCGGACTGCTGGA 946
QY 117 GGTGATCATAGTCTCGCATGTTTCATCATGATGATGCTGTGCAACAGAGCCAGGGCAGCA 176
Db 947 GTCGGTGGGGGGCTCCCGCACTGCTCCGGGACCTGGACCACTCAAGCTCTCTGTACGA 1006
QY 177 TGCNAATCAGGCTGTGGCAACGAAACCGCAGACGCTCAACAGAGGCGCTGAGTCC 236
Db 1007 CCGCGGCTCCGGGGCGGCAAGCTGCGGCGCGCAGCGCGGCTGCTGAGTTCGGGAGATGCG 1066
QY 237 GTTGACGAGATGCTGATCAGATCTGATGATGATGATGATGATGATGATGATGATGATGATG 296
Db 1067 CGGCGCGCACCGCACCTCAGCGCGCGCATCCAGCTGCTCGCGCGCGCGTCCGCGCGG 1126
QY 297 CATGGCGGTGGCGGTTCGCTCAACAGAGCGCTGGGCG 334
Db 1127 CGAGGGGTGGCGGTGCGACTACTACGCCCTCCTCGGG 1164

RESULT 11
US-10-260-238-4340
; Sequence 4340, Application US/10260238
; Publication No. US20040016025A1
; GENERAL INFORMATION:
; APPLICANT: Budworth, Paul R.
; APPLICANT: Moughamer, Todd G.
; APPLICANT: Briggs, Steven P.
; APPLICANT: Cooper, Bret
; APPLICANT: Glazebrook, Jane
; APPLICANT: Goff, Stephen A.
; APPLICANT: Katagiri, Fumiyaki
; APPLICANT: Kreps, Joel
; APPLICANT: Provart, Nicholas
; APPLICANT: Ricke, Darrell
; APPLICANT: Zhu, Tong
; TITLE OF INVENTION: PROMOTERS FOR REGULATION OF PLANT EXPRESSION
; FILE REFERENCE: 60111-NP
; CURRENT APPLICATION NUMBER: US/10/260,238
; CURRENT FILING DATE: 2002-09-26
; PRIOR APPLICATION NUMBER: US 60/325,448
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: US 60/325,277
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: US 60/370,620
; PRIOR FILING DATE: 2002-04-04
; NUMBER OF SEQ ID NOS: 6077
; SEQ ID NO 4340
; LENGTH: 1206
; TYPE: DNA
; ORGANISM: Triticum aestivum
; FEATURE:
; NAME/KEY: N region
; LOCATION: (370)...(395)
```

```
; OTHER INFORMATION: n = any nucleotide
US-10-260-238-4340

Query Match      11.4%; Score 39; DB 16; Length 1206;
Best Local Similarity 42.9%; Pred. No. 0.13;
Matches 117; Conservative 0; Mismatches 156; Indels 0; Gaps 0;

QY 33 CGGCAACTTCAGACCATGGGCATCGGCGCTCAGCAACACGAGGACTCCAGCCAGCATC 92
Db 355 CGGCCAGCAGAGCAGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN 414
QY 93 GCCTTCGGCTGGCTCCGAGCAGCAGCTGGATCAGTTGCTCGCCATGTTTCATCATGATGAT 152
Db 415 AGGCACAGACGGGCAGGTGAAGACCGGTGCTGCTGCTCGCATTCATCATGATGATGAT 474
QY 153 GCTGCAACAGAGCCAGGCGAGGATGCAAAATCAGAGAGTGTGGCAACGACACACCCAGNA 212
Db 475 CAAGAGAGAGACGGGGAAGGAGGACATCGAGGTGGGGTCGATCCGGATGAAGCTGTTCAA 534
QY 213 CGGTCAACAGGAAGCGCTGAGTCCGTTGACGAGATGCTGATGAGATGCTGATGATGATGAT 272
Db 535 CGTCTTCGCGGAGAGCGGCGGCGCCCAAGATCAAGAGTTTCATGAAGGTGATGCTGGAGAA 594
QY 273 GATGAGAACAGGCGCGCGCGCGGCGCATGGGCGG 305
Db 595 GTCGAGCAGGGCGGACGACGCGCGCGCTGCTGGG 627

RESULT 12
US-09-866-034-6
; Sequence 6, Application US/09866034
; Publication No. US20030170864A1
; GENERAL INFORMATION:
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2930R1C1
; CURRENT APPLICATION NUMBER: US/09/866,034
; CURRENT FILING DATE: 2001-05-25
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 38
; SEQ ID NO 6
; LENGTH: 3121
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-034-6

Query Match      11.1%; Score 38; DB 10; Length 3121;
Best Local Similarity 48.2%; Pred. No. 0.34;
Matches 107; Conservative 0; Mismatches 115; Indels 0; Gaps 0;

QY 109 GAGCAGAGCTGGATCAGTTGCTGCGCATGTTTCATCATGATGATGCTCAACAGAGCCAG 168
Db 1980 GAGGAGCAGCACCAGCAGCATGCTTCTCGGAATCGAGATGCTGAGTGGAGAGCAG 2039
QY 169 GGCAGCATGCAATCAGAGTGTGGCAACGAAACACCGCAGAACGGTCAACAGCAAGGC 228
Db 2040 CAGAGCTGGTGTACTGCTGAGGTGGCCCTTGAGCGGCGAGCGCTGGAGATGACCGC 2099
QY 229 CTGAGTCCGTTGACGACAGATCTGATGAGATGCGATGATGATGATGATGATGATGATGAT 288
```





GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: June 18, 2004, 17:24:31 ; Search time 23 Seconds  
(without alignments)  
255.885 Million cell updates/sec

Title: US-09-829-124-2  
Perfect score: 584  
Sequence: 1 MDSIGNNFSNIGNLQTMGIG.....QSGAGMGGGGVSNSLGGNA 114

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA:\*  
1: /cgn2\_6/ptodata/2/iaa/5A COMB.pcp.\*  
2: /cgn2\_6/ptodata/2/iaa/5B COMB.pcp.\*  
3: /cgn2\_6/ptodata/2/iaa/6A COMB.pcp.\*  
4: /cgn2\_6/ptodata/2/iaa/6B COMB.pcp.\*  
5: /cgn2\_6/ptodata/2/iaa/PTCUS COMB.pcp.\*  
6: /cgn2\_6/ptodata/2/iaa/backfiles1.pcp.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	111	19.0	344	1	US-08-891-254-7
2	111	19.0	344	2	US-08-819-539-7
3	111	19.0	344	2	US-09-030-270A-7
4	111	19.0	344	3	US-08-984-207-7
5	111	19.0	344	3	US-09-013-587-7
6	111	19.0	344	4	US-09-086-118-27
7	111	19.0	344	4	US-09-431-614-15
8	111	19.0	344	5	PCT-US96-08819-7
9	111	19.0	385	1	US-08-891-254-3
10	111	19.0	385	2	US-08-819-539-3
11	111	19.0	385	5	PCT-US93-06243-2
12	111	19.0	385	5	PCT-US96-08819-3
13	111	19.0	403	2	US-08-200-224A-2
14	111	19.0	403	2	US-09-030-270A-3
15	111	19.0	403	3	US-08-851-376A-2
16	111	19.0	403	3	US-08-984-207-3
17	111	19.0	403	3	US-09-013-587-3
18	111	19.0	403	4	US-09-086-118-23
19	111	19.0	403	4	US-09-431-614-3
20	95.5	16.4	674	4	US-08-653-648A-14
21	94	16.1	20	2	US-08-030-270A-10
22	94	16.1	20	3	US-08-984-207-10
23	94	16.1	20	3	US-09-013-587-10
24	94	16.1	20	4	US-09-086-118-30
25	94	16.1	20	4	US-09-431-614-18
26	91.5	15.7	424	3	US-09-120-817-2
27	91.5	15.7	424	4	US-09-431-614-14

28	88	15.1	2414	1	US-08-227-536-2	Sequence 2, Appli
29	88	15.1	2414	5	PCT-US95-04682-2	Sequence 2, Appli
30	85	14.6	675	4	US-09-564-418-12	Sequence 12, Appli
31	84	14.4	447	3	US-09-120-927-2	Sequence 2, Appli
32	84	14.4	447	4	US-09-431-614-6	Sequence 6, Appli
33	77	13.2	729	4	US-09-625-188-20	Sequence 20, Appli
34	75.5	12.9	542	4	US-09-252-991A-31091	Sequence 31091, A
35	74.5	12.8	653	3	US-09-061-764A-2	Sequence 2, Appli
36	74.5	12.8	686	3	US-09-061-764A-15	Sequence 15, Appli
37	73	12.5	124	3	US-08-789-333F-41	Sequence 41, Appli
38	73	12.5	124	4	US-08-787-738B-41	Sequence 41, Appli
39	73	12.5	173	3	US-08-789-333F-42	Sequence 42, Appli
40	73	12.5	173	4	US-08-787-738B-42	Sequence 42, Appli
41	73	12.5	303	2	US-08-853-310-2	Sequence 2, Appli
42	72.5	12.4	283	4	US-09-198-452A-424	Sequence 424, App
43	72.5	12.4	719	4	US-09-417-197-51	Sequence 51, Appli
44	72	12.3	369	2	US-08-991-300-2	Sequence 2, Appli
45	71.5	12.2	485	2	US-08-749-391-2	Sequence 2, Appli

## ALIGNMENTS

RESULT 1  
US-08-891-254-7  
; Sequence 7, Application US/08891254  
; Patent No. 5776889  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Beer, Steven V.  
; TITLE OF INVENTION: Hypersensitive Response  
; TITLE OF INVENTION: Induced Resistance In Plants  
; NUMBER OF SEQUENCES: 9  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle  
; STREET: Clinton Square, P.O. Box 1051  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/891,254  
; FILING DATE: 10-JUL-1997  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/475,775  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 14603/10050  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 7:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 344 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-891-254-7

Query Match 19.0%; Score 111; DB 1; Length 344;  
Best Local Similarity 25.8%; Pred. No. 0.00034;  
Matches 40; Conservative 17; Mismatches 54; Indels 44; Gaps 5;  
QY 3 SIGNNFSNIGNLQTM-----GIGPQHEDSSQSPSAGSE-----QQLDQ 42

RESULT 3  
US-09-030-270A-7  
Sequence 7, Application US/09030270A  
Patent No. 5977060  
GENERAL INFORMATION:  
APPLICANT: Zitter, Thomas A.  
APPLICANT: Wei, Zhong-Min  
TITLE OF INVENTION: INSECT CONTROL WITH A  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: P.O. Box 1051, Clinton Square  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603

ADDRESS: Nixon, Hargrave, Devans & Doyle LLP  
STREET: P.O. Box 1051, Clinton Square  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
Zip: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/030.270A

```

1  FILING DATE: 28-FEB-1997
2  ATTORNEY/AGENT INFORMATION:
3
4  NAME: Goldman, Michael L.
5  REGISTRATION NUMBER: 30,727
6  REFERENCE/DOCKET NUMBER: 19603/1521
7  TELECOMMUNICATION INFORMATION:
8
9  TELEPHONE: (716) 263-1304
10  TELEFAX: (716) 263-1600
11  INFORMATION FOR SEQ ID NO: 7:
12  SEQUENCE CHARACTERISTICS:
13      LENGTH: 344 amino acids
14      TYPE: amino acid
15  STRANDEDNESS:
16  TOPOLOGY: linear
17  MOLECULE TYPE: protein
18  US-09-030-270A-7

```

[illegible]

QY	95	-----OGGAGGGGGSVNSSLGN	113
		:   :	
DB	178	AGAGGAGGVGGAGGADGGGAGGANGNDGNN	212

RESULT 4  
US-08-984-207-7  
; Sequence 7, Application US/08984207  
; Patent No. 6235974  
; GENERAL INFORMATION:  
; APPLICANT: Qiu, Dewen  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Beer, Steven V.  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED  
; TITLE OF INVENTION: RESISTANCE IN PLANTS BY SEED TREATMENT

```

RESULT 5
US-09-013-587-7
; Sequence 7, Application US/09013587
; Patent No. 6277814
; GENERAL INFORMATION:
; APPLICANT: Qiu, Dewen
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: ENHANCEMENT OF GROWTH IN PLANTS
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible

```

APPLICATION NUMBER: 30-MAY-1968  
FILING DATE: 30-MAY-1968

APPLICATION NUMBER: US 60/048,109  
FILING DATE: 30-MAY-1997

APPLICATION NUMBER: US 60/048,109  
FILING DATE: 30-MAY-1997

ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/1301  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 27:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 344 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-086-118-27

Query Match 19.0%; Score 111; DB 4; Length 344;  
Best Local Similarity 25.8%; Pred. No. 0.00014;  
Matches 40; Conservative 17; Mismatches 54; Indels 44; Gaps 5;

QY 3 SIGNFNSIGNLQTM-----GIGPQOHHEDSSQSPSAGSE-----QQLDQ 42  
DB 58 SAGGNTGNTGNAPAKDGNANAGANDPSKNDPSQAPQSANVTGNDANNQDPMQALMQ 117

QY 43 LLAMFTMM-----LQSQSGSDANQECG--NEQPQNGQOEGSLPTOMLMQIVMLQMN- 94  
DB 118 LLEDLVKLLKAAALHMQPGGNDKNGVGGANGAKGAGGGGGLAELQIEQILAQLGCGG 177

QY 95 -----QGAGMGCGGGSVNSSLGN 113  
DB 178 AGAGGAGGCGGAGGAGDGGSGAGGAGGANGADGNG 212

RESULT 8  
US-09-431-614-15  
Sequence 15, Application US/09431614  
Patent No. 6624139  
GENERAL INFORMATION:  
APPLICANT: Wei, Zhong-Min  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR-INDUCED STRESS  
FILE OF INVENTION: RESISTANCE  
FILE REFERENCE: 21829/41 (EBC-003)  
CURRENT APPLICATION NUMBER: US/09/431,614  
CURRENT FILING DATE: 1999-11-02  
EARLIER APPLICATION NUMBER: 60/107,243  
EARLIER FILING DATE: 1998-11-05  
NUMBER OF SEQ ID NOS: 18  
SOFTWARE: Patent In Ver. 2.0  
SEQ ID NO 15  
LENGTH: 344  
TYPE: PRT  
ORGANISM: Pseudomonas solanacearum  
US-09-431-614-15

Query Match 19.0%; Score 111; DB 4; Length 344;  
Best Local Similarity 25.8%; Pred. No. 0.00014;  
Matches 40; Conservative 17; Mismatches 54; Indels 44; Gaps 5;

QY 3 SIGNFNSIGNLQTM-----GIGPQOHHEDSSQSPSAGSE-----QQLDQ 42  
DB 58 SAGGNTGNTGNAPAKDGNANAGANDPSKNDPSQAPQSANVTGNDANNQDPMQALMQ 117

QY 43 LLAMFTMM-----LQSQSGSDANQECG--NEQPQNGQOEGSLPTOMLMQIVMLQMN- 94  
DB 118 LLEDLVKLLKAAALHMQPGGNDKNGVGGANGAKGAGGGGGLAELQIEQILAQLGCGG 177

QY 95 -----QGAGMGCGGGSVNSSLGN 113  
DB 178 AGAGGAGGCGGAGGAGDGGSGAGGAGGANGADGNG 212

PCT-US96-08819-7  
Sequence 7, Application PC/TUS9608819  
GENERAL INFORMATION:  
APPLICANT: Cornell Research Foundation, Inc.  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED  
TITLE OF INVENTION: RESISTANCE IN PLANTS  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US96/08819  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/475,775  
FILING DATE: 07-JUN-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/10051  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 7:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 344 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
PCT-US96-08819-7

Query Match 19.0%; Score 111; DB 5; Length 344;  
Best Local Similarity 25.8%; Pred. No. 0.00014;  
Matches 40; Conservative 17; Mismatches 54; Indels 44; Gaps 5;

QY 3 SIGNFNSIGNLQTM-----GIGPQOHHEDSSQSPSAGSE-----QQLDQ 42  
DB 58 SAGGNTGNTGNAPAKDGNANAGANDPSKNDPSQAPQSANVTGNDANNQDPMQALMQ 117

QY 43 LLAMFTMM-----LQSQSGSDANQECG--NEQPQNGQOEGSLPTOMLMQIVMLQMN- 94  
DB 118 LLEDLVKLLKAAALHMQPGGNDKNGVGGANGAKGAGGGGGLAELQIEQILAQLGCGG 177

QY 95 -----QGAGMGCGGGSVNSSLGN 113  
DB 178 AGAGGAGGCGGAGGAGDGGSGAGGAGGANGADGNG 212

RESULT 9  
US-08-891-254-3  
Sequence 3, Application US/08891254  
Patent No. 5776889  
GENERAL INFORMATION:  
APPLICANT: Wei, Zhong-Min  
TITLE OF INVENTION: Hyper-sensitive Response  
TITLE OF INVENTION: Induced Resistance in Plants  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester



STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICANT: Wei, Zhong-Min  
ATTORNEY/AGENT INFORMATION:  
FILING DATE: 10-JUL-1997  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/475,775  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 14603/10050  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 385 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-891-254-3

Query Match 19.0%; Score 111; DB 1; Length 385;  
Best Local Similarity 31.5%; Pred. No. 0.00016;  
Matches 39; Conservative 21; Mismatches 48; Indels 16; Gaps 7;  
QY 5 GNNFSNIGNL---QTMGI-GPOQHEDSSQQSPS-AGSEQQLDOLLAMFIMMMLQSS---Q 56  
DB 118 GNNFTSTNPSLDQALGINSTSDSTSDSDSDPMDQLKMFSEIM--QSLFGD 175  
QY 57 GSDANQ--ECGNEQPOGQQ---EGLSPLTQMLMQLVQMLMONGAGMGCGGGSVNSL 110  
DB 176 GQDGTGQSSSGGKQPTGEGNAYKGVTDALSGLMNGLSQLKGGGLGGGGGAGTGL 235  
QY 111 GGNA 114  
DB 236 DGSS 239

RESULT 10  
US-08-819-539-3  
Sequence 3, Application US/08819539  
Patent No. 5859324  
GENERAL INFORMATION:  
APPLICANT: Wei, Zhong-Min  
ATTORNEY/AGENT INFORMATION:  
FILING DATE: 10-JUL-1997  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/475,775  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 14603/10050  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 385 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-891-254-3

CLASSIFICATION: 800  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/475,775  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 14603/10050  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 385 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-819-539-3  
Query Match 19.0%; Score 111; DB 2; Length 385;  
Best Local Similarity 31.5%; Pred. No. 0.00016;  
Matches 39; Conservative 21; Mismatches 48; Indels 16; Gaps 7;  
QY 5 GNNFSNIGNL---QTMGI-GPOQHEDSSQQSPS-AGSEQQLDOLLAMFIMMMLQSS---Q 56  
DB 118 GNNFTSTNPSLDQALGINSTSDSTSDSDSDPMDQLKMFSEIM--QSLFGD 175  
QY 57 GSDANQ--ECGNEQPOGQQ---EGLSPLTQMLMQLVQMLMONGAGMGCGGGSVNSL 110  
DB 176 GQDGTGQSSSGGKQPTGEGNAYKGVTDALSGLMNGLSQLKGGGLGGGGGAGTGL 235  
QY 111 GGNA 114  
DB 236 DGSS 239  
RESULT 11  
US-08-819-539-3  
Sequence 2, Application PC/TUS9306243  
GENERAL INFORMATION:  
APPLICANT: Zhong-Min Wei, David W. Bauer, Steven V.  
ATTORNEY/AGENT INFORMATION:  
FILING DATE: 01-JUL-1992  
CLASSIFICATION: 907,935  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 01-JUL-1992  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: George M. Yahwak  
REGISTRATION NUMBER: 26,824  
REFERENCE/DOCKET NUMBER: CRF D-1172  
TELEPHONE: (203) 268-1951  
TELEFAX: (203) 268-1951  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:

```

; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
PCT-US93-06243-2

```

Query Match 19.0%; Score 111; DB 5; Length 385;  
Best Local Similarity 31.5%; Pred. No. 0.00016;  
Matches 39; Conservative 21; Mismatches 48; Indels 16; Gaps 7;

Qy	5	GNNFSGNGL---	GTWGI-GPQHEDSSQSPPS-AGSEQDLDLLAFIMMLQSQS---Q	56
Dd	118	GNNITTSPLDQALGINSTQNDDISTGDTSDSDSPKQLLKKFSEIM--QSLFGD	175	
Qy	57	GSDAQN--ECGNVEPQNGQQ-----EGLSPITQMMLMQIYVLMQNOGGACMGCGGGGVNSSL	110	
Dd	176	GDGTQGSSSGGKQPTEGEONAYKKGYTDALSGLMGSLQLLGNGLGGGQGGNAGTGL	235	
Qy	111	GGNA	114	
Dd	236	DGSS	239	

```

1 RESULT 12
2 PCT-US96-08819-3
3 ; Sequence 3, Application PC/TUS9608819
4 ; GENERAL INFORMATION:
5 ; APPLICANT: Cornell Research Foundation, Inc.
6 ; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED
7 ; TITLE OF INVENTION: RESISTANCE IN PLANTS
8 ; NUMBER OF SEQUENCES: 9
9 ; CORRESPONDENCE ADDRESS:
10 ; ADDRESSES: Nixon, Hargrave, Devans & Doyle LLP
11 ; STREET: Clinton Square, P.O. Box 1051
12 ; CITY: Rochester
13 ; STATE: New York
14 ; COUNTRY: U.S.A.
15 ; ZIP: 14603
16 ;
17 ; COMPUTER READABLE FORM:
18 ; MEDIUM TYPE: Floppy disk
19 ; COMPUTER: IBM PC compatible
20 ; OPERATING SYSTEM: PC-DOS/MS-DOS
21 ; SOFTWARE: PatentIn Release #1.0, Version #1.30
22 ; CURRENT APPLICATION DATA:
23 ; APPLICATION NUMBER: PCT/US96/09819
24 ; FILING DATE:

```

CLASSIFICATION:  
PRIOR APPLICATION DATA: US 08/475,775  
APPLICATION NUMBER: 07-JUN-1995  
FILING DATE: 07-JUN-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/10051  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 385 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
PCT-US96-08819-3

Query Match	19.0%	Score 111;	DB 5;	Length 385;
Best Local Similarity	31.5%;	Pred. No. 0.00016;		
Matches	39;	Conservative	21;	Mismatches 48;
				Indels 16;
				Gaps 7;

QY 5 GANPSNIGNL--QTWGI-GPQOHBDSQQSPS-AGSEQQLDOLLANFINMLQQS---Q 56

Db	118	GNNTTSTNSPLDQALGINSTSNDDSTSGTSDTSDSDSDPQQLKWPSEIK--QSLPGD	176
Qy	57	GSDAQN--ECGNBPQNGQQ-----EGLSPITQMLQIIVMLQMONGCGMGCGGSVNSIL	110
Db	176	QDGTGSSGGKQPTTEGGNAYKKGVTDALSLMNGSLQLLNGGLGCGCGGNAGTGL	235
Qy	111	GGNA 114	
Db	236	DGSS 239	

```

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
553
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
570
571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
588
589
590
591
592
593
594
595
596
597
598
599
600
601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649
650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678
679
680
681
682
683
684
685
686
687
688
689
690
691
692
693
694
695
696
697
698
699
700
701
702
703
704
705
706
707
708
709
710
711
712
713
714
715
716
717
718
719
720
721
722
723
724
725
726
727
728
729
730
731
732
733
734
735
736
737
738
739
740
741
742
743
744
745
746
747
748
749
750
751
752
753
754
755
756
757
758
759
760
761
762
763
764
765
766
767
768
769
770
771
772
773
774
775
776
777
778
779
780
781
782
783
784
785
786
787
788
789
790
791
792
793
794
795
796
797
798
799
800
801
802
803
804
805
806
807
808
809
810
811
812
813
814
815
816
817
818
819
820
821
822
823
824
825
826
827
828
829
830
831
832
833
834
835
836
837
838
839
840
841
842
843
844
845
846
847
848
849
850
851
852
853
854
855
856
857
858
859
860
861
862
863
864
865
866
867
868
869
870
871
872
873
874
875
876
877
878
879
880
881
882
883
884
885
886
887
888
889
890
891
892
893
894
895
896
897
898
899
900
901
902
903
904
905
906
907
908
909
910
911
912
913
914
915
916
917
918
919
920
921
922
923
924
925
926
927
928
929
930
931
932
933
934
935
936
937
938
939
940
941
942
943
944
945
946
947
948
949
950
951
952
953
954
955
956
957
958
959
960
961
962
963
964
965
966
967
968
969
970
971
972
973
974
975
976
977
978
979
980
981
982
983
984
985
986
987
988
989
990
991
992
993
994
995
996
997
998
999

```

```

Query Match      19.0%; Score 111; DB 2; Length 403;
Best Local Similarity 31.5%; Fred.No. 0.00017;
Matches 39; Conservative 21; Mismatches 48; Indels 16; Gaps 7;

Qy    5   GNPFNIGNL--QYMG-I-GPQQHESSQQSPS-AGSEQQQLDOLLAMFIMMLQOS---Q 56
       ||| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :||
Db    118  GNNTTSTTNPELQALGINTSQNDTSSTGTSDTSDDPMQQLKMFSEIM--QSLLPGD 175

Qy    57   GSDANQ--ECGNBPQNQQO-----EGLSPLTQMIMQIWMQLMNQGAGMGGGSVNSSL 110
       ||| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :||
Db    176  GDQTQCSSSGSKPTBEGEQNAKKGYTDALISGLMGNGLSQLLNGCLGGGQGGNACTGL 235

Qy    111  GENA 114
        |::
Db    236  DGSS 239

```

## RESULT 14

US-09-030-270A-3  
Sequence 3, Application US/09030270A  
Patent No. 5977060  
GENERAL INFORMATION:  
APPLICANT: Zitter, Thomas A.  
APPLICANT: Wei, Zhong-Min  
TITLE OF INVENTION: INSECT CONTROL WITH A  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: P.O. Box 1051, Clinton Square  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/030,270A  
FILING DATE: 28-FEB-1997  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/039,226  
FILING DATE: 28-FEB-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/1521  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 403 amino acids  
TYPE: amino acid  
STRANDEDNESS: linear  
TOPOLOGY: protein  
MOLECULE TYPE: protein  
US-09-030-270A-3

Query Match 19.0%; Score 111; DB 2; Length 403;  
Best Local Similarity 31.5%; Pred. No. 0.00017;  
Matches 39; Conservative 21; Mismatches 48; Indels 16; Gaps 7;  
QY 5 GNFNSIGNL---QTMGI-GPOQHEDSSQSPS-AGSEQQLDQLLAFIMMQLQSS---Q 56  
DB 118 GNTTSTNSPLDQALGINSTQDSDTSGTDSDDPMQQLKMFSEIM--QSLFGD 175  
QY 57 GSDANQ--RCGNEQPONGQ---EGLSPLTQMLMQIVMLQMQGAGMGCGGGSVNSL 110  
DB 176 GQDGTQSSSGGKQPTGEQNAKKGVTDLASGLMGNGLSQLLNGGLGGQGGAGTGL 235  
QY 111 GGNA 114  
DB 236 DGSS 239

## RESULT 15

US-08-851-376A-2  
Sequence 2, Application US/08851376A  
Patent No. 6174717  
GENERAL INFORMATION:  
APPLICANT: Beer, Steven V.  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Bauer, David W.  
APPLICANT: Collmer, Alan  
APPLICANT: He, Sheng-Yang

APPLICANT: Laby, Ron  
TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE  
TITLE OF INVENTION: IN PLANTS  
NUMBER OF SEQUENCES: 5  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon Peabody LLP  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: NY  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/851,376A  
FILING DATE: 05-MAY-1997  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/200,724  
FILING DATE: 23-FEB-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/10035  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 403 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-851-376A-2

Query Match 19.0%; Score 111; DB 3; Length 403;  
Best Local Similarity 31.5%; Pred. No. 0.00017;  
Matches 39; Conservative 21; Mismatches 48; Indels 16; Gaps 7;  
QY 5 GNFNSIGNL---QTMGI-GPOQHEDSSQSPS-AGSEQQLDQLLAFIMMQLQSS---Q 56  
DB 118 GNTTSTNSPLDQALGINSTQDSDTSGTDSDDPMQQLKMFSEIM--QSLFGD 175  
QY 57 GSDANQ--RCGNEQPONGQ---EGLSPLTQMLMQIVMLQMQGAGMGCGGGSVNSL 110  
DB 176 GQDGTQSSSGGKQPTGEQNAKKGVTDLASGLMGNGLSQLLNGGLGGQGGAGTGL 235  
QY 111 GGNA 114  
DB 236 DGSS 239

Search completed: June 18, 2004, 17:30:26  
Job time : 24 secs

Record No.	Score	Match	Length	DB	ID	Description
1	40.6	11.9	915	4	US-09-252-991A-10957	Sequence 10
C	40.6	11.9	2178	4	US-09-252-991A-11254	Sequence 11
	39.8	11.6	522	4	US-09-252-991A-11160	Sequence 11
	39.8	11.6	1557	4	US-09-252-991A-11093	Sequence 11
4	38.6	11.3	993	4	US-09-252-991A-9940	Sequence 99
5	38.6	11.3	1023	4	US-09-252-991A-10137	Sequence 10
C	38.6	11.2	333	4	US-09-252-991A-11436	Sequence 11
	38.2	11.2	333	4	US-09-252-991A-11436	Sequence 11
	37.6	11.0	1035	1	US-08-891-254-8	Sequence 8
9	37.6	11.0	1035	2	US-08-819-533-8	Sequence 8
10	37.6	11.0	1035	2	US-09-030-270A-8	Sequence 8
11	37.6	11.0	1035	3	US-08-984-207-8	Sequence 8
12	37.6	11.0	1035	3	US-09-013-587-8	Sequence 8
13	37.6	11.0	1035	4	US-09-086-118-28	Sequence 28
14	37.6	11.0	1035	4	US-09-431-614-16	Sequence 16
15	37.6	11.0	1035	5	PCT-US96-08819-8	Sequence 8
16	37.6	11.0	1608	4	US-09-252-991A-11839	Sequence 11
17	37.6	11.0	2640	4	US-09-252-991A-11547	Sequence 11
C	37.6	11.0	2934	4	US-08-252-991A-11690	Sequence 11
	37.6	11.0	2934	1	US-08-425-069-1	Sequence 1
	37.2	10.9	2338	1	US-08-317-844B-1	Sequence 1
20	37.2	10.9	2338	2	US-08-317-844B-1	Sequence 2
21	36.4	10.6	4403765	3	US-09-103-840A-2	Sequence 2
C	36.4	10.6	4411529	3	US-09-103-840A-2	Sequence 1
	36.4	10.6	4411529	3	US-09-103-840A-2	Sequence 1
	36	10.5	426	4	US-09-252-991A-3156	Sequence 31
24	36	10.5	657	3	US-08-998-416-1132	Sequence 11
25	36	10.5	1126	3	US-08-949-158-5	Sequence 5
26	36	10.5	1126	4	US-09-819-964-5	Sequence 5
27	35.8	10.5	1116	4	US-09-252-991A-9195	Sequence 91

; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; PRIOR FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142

; SEQ ID NO 11254

; LENGTH: 2178

; TYPE: DNA

; ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-11254

Query Match 11.9%; Score 40.6; DB 4; Length 2178;

Best Local Similarity 49.3%; Pred. No. 0.07;

Matches 106; Conservative 0; Mismatches 109; Indels 0; Gaps 0;

QY 124 CAGTTCTCGCATGTTTCATGATGCTGCAACAGAGCCAGGCGAGCGATGCAAAAT 183

DB 2043 CTGGTCTTCGCTGTTCTCTCTGTCGCTCTACGTGTTCTGAGCGGCGCTGAAG 1984

QY 184 CAGGAGTGTGGCAACGAAACACCGCAGAACCGTCAACAGAGAGGCTGAGTCCGTTGAGC 243

DB 1983 CAGGGTTTCGGCACCTTCTTCGAGGCGATCTCGAACCCGACGCGCTGGCCGCGCTGAAG 1924

QY 244 CAGATGCTGATGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGCTG 303

DB 1923 CTGACCTGATCGCGTGGCCATCTCGGTGCGCTCAACTGTTGCTGCTGCTGCTGCTG 1864

QY 304 GGTGGCGGTTGCTCAACAGAGCGCTGGCGGCGCAA 338

DB 1863 GCTGTGTGGTGAGCAAGTTGAGTTTCGGGCAA 1829

#### RESULT 3

US-09-252-991A-11160

; Sequence 11160, Application US/09252991A

; Patent No. 6551795

; GENERAL INFORMATION:

; APPLICANT: Marc J. Rubenfield et al.

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

; FILE REFERENCE: 107196.136

; CURRENT APPLICATION NUMBER: US/09/252,991A

; PRIOR FILING DATE: 1999-02-18

; PRIOR APPLICATION NUMBER: US 60/074,788

; PRIOR FILING DATE: 1998-02-18

; PRIOR APPLICATION NUMBER: US 60/094,190

; PRIOR FILING DATE: 1998-07-27

; NUMBER OF SEQ ID NOS: 33142

; SEQ ID NO 11160

; LENGTH: 522

; TYPE: DNA

; ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-11160

Query Match 11.6%; Score 39.8; DB 4; Length 522;

Best Local Similarity 46.5%; Pred. No. 0.071;

Matches 128; Conservative 0; Mismatches 147; Indels 0; Gaps 0;

QY 12 CCGAACAACTTTTGAATATCGGCAACCTTCGACAGATGGGCTTCAGCAACA 71

DB 219 CGGTAACGTGGTCACTGATGACACCCGACGCGCTTCGGCCGCGGACCTTCGCGCCGCT 278

QY 72 CAGGAGCTCCAGCCAGCTGCGCTTCGCTGCTCGGAGCAGCAGCTGATGATGCT 131

DB 279 CAGCGACAACCGCGGATGCTCAATATCGAGGGGACAGAGGTGGTGGCATCTCTGCT 338

QY 132 CGGCATGTTTCATGATGATGCTGCAACAGAGCCAGGCGAGGATGCAAAATCAGAGTG 191

DB 339 CGACAGCGTGGCGAGGTGTTCTACCTGAAGCAGTCCGAAATCGAGACCGCGCGCAAGCT 398

QY 192 TGGCAACGAAACACCGCAGACCGTCAACAGAGGCTGAGTCCGTTGACCGCATGCT 251

DB 399 CGGCAACGAAAGAGTGGCCAAAGTTTCATCCAGGGTGTCTGCAACAGAAACGGCGAGTCT 458

QY 252 GATGAGATCGTGTGATGAGCTGATGATGATGATGATGATGATGATGATGATGATGAT 286

DB 459 GATCTGCTGAGCTGGCAAGATGATGATGATGATGATGATGATGATGATGATGATGAT 493

#### RESULT 4

US-09-252-991A-11093/c

; Sequence 11093, Application US/09252991A

; Patent No. 6551795

; GENERAL INFORMATION:

; APPLICANT: Marc J. Rubenfield et al.

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

; FILE REFERENCE: 107196.136

; CURRENT APPLICATION NUMBER: US/09/252,991A

; PRIOR FILING DATE: 1999-02-18

; PRIOR APPLICATION NUMBER: US 60/074,788

; PRIOR FILING DATE: 1998-02-18

; PRIOR APPLICATION NUMBER: US 60/094,190

; PRIOR FILING DATE: 1998-07-27

; NUMBER OF SEQ ID NOS: 33142

; SEQ ID NO 11093

; LENGTH: 1557

; TYPE: DNA

; ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-11093

Query Match 11.6%; Score 39.8; DB 4; Length 1557;

Best Local Similarity 46.5%; Pred. No. 0.1;

Matches 128; Conservative 0; Mismatches 147; Indels 0; Gaps 0;

QY 12 CCGAACAACTTTTGAATATCGGCAACCTTCGACAGATGGGCTTCAGCAACA 71

DB 310 CGGTAACGTGGTCACTGATGACACCCGCGCTTCGCGCTTCGACCTTCGCGCCGCT 251

QY 72 CAGGAGCTCCAGCCAGCTGCGCTTCGCTGCTCGGAGCAGCAGCTGATGATGCT 131

DB 250 CAGCGACAACCGCGGATGCTCAATATCGAGCGGACAGAGGTGGTGGCATCTCTGCT 191

QY 132 CGGCATGTTTCATGATGATGCTGCAACAGAGCGGAGGCGAGGATGCAAAATCAGAGTG 191

DB 190 CGACAGCGTGGCGAGGTGTTCTACCTGAAGCAGTCCGAAATCGAGACCGCGCGAACT 131

QY 192 TGGCAACGAAACACCGCAGACCGTCAACAGAGGCTGAGTCCGTTGACCGCATGCT 251

DB 130 CGGCAACGAAAGTCCGCAAGTTTCATCCAGGGTGTCTGCAACAGAACCGCGAGTCT 71

QY 252 GATGAGATCGTGTGATGAGCTGATGATGATGATGATGATGATGATGATGATGATGAT 286

DB 70 GATCTGCTGAGCTGGCAAGATGATGATGATGATGATGATGATGATGATGATGATGAT 36

#### RESULT 5

US-09-252-991A-9940

; Sequence 9940, Application US/09252991A

; Patent No. 6551795

; GENERAL INFORMATION:

; APPLICANT: Marc J. Rubenfield et al.

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

; FILE REFERENCE: 107196.136

; CURRENT APPLICATION NUMBER: US/09/252,991A

; PRIOR FILING DATE: 1999-02-18

; PRIOR APPLICATION NUMBER: US 60/074,788

; PRIOR FILING DATE: 1998-02-18

; PRIOR APPLICATION NUMBER: US 60/094,190

; PRIOR FILING DATE: 1998-07-27

; NUMBER OF SEQ ID NOS: 33142

```
; SEQ ID NO 9940
; LENGTH: 933
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-9940

Query Match      11.3%; Score 38.6; DB 4; Length 933;
Best Local Similarity 45.5%; Pred. No. 0.19;
Matches 137; Conservative 0; Mismatches 164; Indels 0; Gaps 0;

QY 32 TCGGCAACTGCGAGATGGGCTTCGGCTCAGCAACAGAGACTCCAGCCAGCACT 91
Db 236 TCGAACAATGGCAAGCATCCGACGAGGCGCTGCACGACGCGCGCAACATCA 295
QY 92 CGCTTCGGCTCGCGACGAGCTGGATCAGTTCCTGCCATGTTTCATCATGATGA 151
Db 296 AGCTTCGCAACAGTACGAGTATCGTTTCACTCTCTTCAGAGCGGCTGGAAGC 355
QY 152 TGTCTCAACAGAGCCAGGACGATGCAATCAGAGTGTGGCAACGAACACCGCAGA 211
Db 356 GCTTCTACCTGAATGTGACGAGGAGGCGCATCCCTCCGCGGACAACTCTGCCCGCAGA 415
QY 212 AGGTCACAGAGAGCTGAGTCCGTTGACCGAGATGCTGATGTCAGATCGTGATGACG 271
Db 416 CCACCGCTCGTTGGCGAGATTCCTCGGTCAAGCGCGGAGTTCGCGGAACTGCCGC 475
QY 272 TGATGCAAGAACGAGCGCGCGCGCATGGGCGGTGGCGGTTTCGTTCAACAGCAGCTTG 331
Db 476 CGGGCTCGAAGCTGTGTGCGACACGCGCATCCCTACGCGGCTCGCTGCGCTTCCACCTGG 535
QY 332 G 332
Db 536 G 536

RESULT 6
US-09-252-991A-10137/c
; Sequence 10137, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 10137
; LENGTH: 1023
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-10137

Query Match      11.3%; Score 38.6; DB 4; Length 1023;
Best Local Similarity 45.5%; Pred. No. 0.19;
Matches 137; Conservative 0; Mismatches 164; Indels 0; Gaps 0;

QY 32 TCGGCAACTGCGAGATGGGCTTCGGCTCAGCAACAGAGACTCCAGCCAGCACT 91
Db 752 TCGAACAATGGCAAGCATCCGACGAGGCGCTGCACCTGCAAGAGCGCGCAACATCA 693
QY 92 CGCTTCGGCTCGCGACGAGCTGGATCAGTTCCTGCCATGTTTCATCATGATGA 151
Db 692 AGGCTTCGAAAGTACGAGCATTCGGTTTCAACTCGTTTTCAGAGCGGCTGGAAGC 633
QY 152 TGTCTCAACAGAGCCAGGCGAGTGAATCAGAGTGTGGCAACGAACACCGCAGA 211
Db 632 GCTTCTACTGAATGTGACGAGGCGCATCCCTCCGCGGACAACTCTGCCCGCAGA 573
```

```
QY 212 ACGGTCAACAGAGAGGCTTGAGTCCTGAGTCCTGAGCGCATGATGATCAGATCTGATGAGC 271
Db 572 CCACCGCTCTGTTGGCGCAGATTCCTCGGTCAAGCGCGGATGTTCCCGCAACTGCCGC 513
QY 272 TGATGCAAGAACGAGCGCGCGCATGGGCGGTGGCGGTTTCGTTCAACAGCAGCTGG 331
Db 512 CGGCTCGAAGCTGTGCGACACCGCGATCCCTACGCGGCTCTGCGGCTTCCACCTGG 453
QY 332 G 332
Db 452 G 452

RESULT 7
US-09-252-991A-11436
; Sequence 11436, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 11436
; LENGTH: 333
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-11436

Query Match      11.2%; Score 38.2; DB 4; Length 333;
Best Local Similarity 51.5%; Pred. No. 0.17;
Matches 88; Conservative 0; Mismatches 83; Indels 0; Gaps 0;

QY 4 GACTCTATCGGAACAACTTTTCGAATATCGGCACTCGCAACGATGGCATCGGCT 63
Db 97 GAGTGGCTGGAGCAGCGCCCTTCTGATCATCTCTGTTGACTCTGCTGGCGGCTGG 156
QY 64 CAGCAACACAGAGGACTCCAGGCAAGTCGCTTCGGCTCGGCTCGGAGCAGCAGCTGGAT 123
Db 157 CTGGTACAGAGTCTTCGACCAAGCGGCGATCCGCGGATCTCCGGTTGAACACTAT 216
QY 124 CAGTTCTCGGCATCTTCATCATGATGATGCTGCAACAGCAGCGGCGAGC 174
Db 217 AACCTGCTGTTCTGATGCTCGGCGCGTTCGCTGCACTCGGCGCGCGCGAGC 267

RESULT 8
US-08-891-254-8
; Sequence 8, Application US/08891254
; Patent No. 5776889
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance in Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESS: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
```

```

; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/891,254
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1035 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-08-891-254-8
;
; Query Match 11.0%; Score 37.6; DB 1; Length 1035;
; Best Local Similarity 55.3%; Pred. No. 0.36;
; Matches 73; Conservative 0; Mismatches 59; Indels 0; Gaps 0;
;
; QY 211 AACGTCACAGCAAGCGCTGAGTCCGTTGACGACATGCTGATGACATGCTGATGACAG 270
; DB 712 AGCGAAGACCAAGCGCGCTCACCAGGCTGCTGCAAGCTGATGATGATGATGATGATG 771
; QY 271 CTGATGACAGCAAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 330
; DB 772 CTGATGACAGCAAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 831
; QY 331 GCGCGCAAGCGC 342
; DB 832 AAGGTCGCGGC 843
;
; RESULT 9
; US-08-819-539-8
; Sequence 8, Application US/08819539
; Patent No. 5859324
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance In Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/819,539
; FILING DATE: 17-MAR-1997
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727

```

```

; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1035 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-08-819-539-8
;
; Query Match 11.0%; Score 37.6; DB 2; Length 1035;
; Best Local Similarity 55.3%; Pred. No. 0.36;
; Matches 73; Conservative 0; Mismatches 59; Indels 0; Gaps 0;
;
; QY 211 AACGTCACAGCAAGCGCTGAGTCCGTTGACGACATGCTGATGACATGCTGATGACAG 270
; DB 712 AGCGAAGACCAAGCGCGCTCACCAGGCTGCTGCAAGCTGATGATGATGATGATGATG 771
; QY 271 CTGATGACAGCAAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 330
; DB 772 CTGATGACAGCAAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 831
; QY 331 GCGCGCAAGCGC 342
; DB 832 AAGGTCGCGGC 843
;
; RESULT 10
; US-09-030-270A-8
; Sequence 8, Application US/09030270A
; Patent No. 5977080
; GENERAL INFORMATION:
; APPLICANT: Zitter, Thomas A.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: INSECT CONTROL WITH A
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: P.O. Box 1051, Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/030,270A
; FILING DATE:
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/039,226
; FILING DATE: 28-FEB-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1521
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1035 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)

```

US-09-030-270A-8

Query Match 11.0%; Score 37.6; DB 2; Length 1035;  
Best Local Similarity 55.3%; Pred. No. 0.36;  
Matches 73; Conservative 0; Mismatches 59; Indels 0; Gaps 0;

QY 211 AACGGTCAACAGGAGCGCTGAGTCCCTTGAACGAGATGCTGATGCGATGCGATGCGAG 270  
DB 712 AGCGAAGACAGGCGCGCTCACCGGCTGCTGCAAAAGCTGATGAAGATCCTGAACGG 771

QY 271 CTGATGCAACAGCGCGCGCGGATGCGGCGGCGGATGCGGCGGCTGCGTCAACAGCAGCTG 330  
DB 772 CTGATGCAACAGCGCGCGGATGCGGCGGCGGATGCGGCGGCTGCGTCAACAGCAGCTG 831

QY 331 GCGGCGCAACGCC 342  
DB 832 AAGGGTCCCGC 843

## RESULT 11

US-08-984-207-8  
Sequence 8, Application US/08984207  
Patent No. 6235974

GENERAL INFORMATION:  
APPLICANT: Qiu, Dewen  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Beer, Steven V.  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED  
TITLE OF INVENTION: RESISTANCE IN PLANTS BY SEED TREATMENT  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: P.O. Box 1051, Clinton Square  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/984,207  
FILING DATE:

CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/033,230  
FILING DATE: 05-DEC-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/1201  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:  
LENGTH: 1035 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)

US-08-984-207-8  
Query Match 11.0%; Score 37.6; DB 3; Length 1035;  
Best Local Similarity 55.3%; Pred. No. 0.36;  
Matches 73; Conservative 0; Mismatches 59; Indels 0; Gaps 0;

QY 211 AACGGTCAACAGGAGCGCTGAGTCCCTTGAACGAGATGCTGATGCGATGCGAG 270  
DB 712 AGCGAAGACAGGCGCGCTCACCGGCTGCTGCAAAAGCTGATGAAGATCCTGAACGG 771

QY 271 CTGATGCAACAGCGCGCGGATGCGGCGGCGGATGCGGCGGCTGCGTCAACAGCAGCTG 330  
DB 772 CTGATGCAACAGCGCGGATGCGGCGGCGGATGCGGCGGCTGCGTCAACAGCAGCTG 831

QY 331 GCGGCGCAACGCC 342  
DB 832 AAGGGTCCCGC 843

## RESULT 12

US-09-013-587-8  
Sequence 8, Application US/09013587  
Patent No. 6277814

GENERAL INFORMATION:  
APPLICANT: Qiu, Dewen  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Beer, Steven V.  
TITLE OF INVENTION: ENHANCEMENT OF GROWTH IN PLANTS  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/013,587  
FILING DATE:

CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/036,048  
FILING DATE: 27-JAN-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/1501  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:  
LENGTH: 1035 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)

US-09-013-587-8  
Query Match 11.0%; Score 37.6; DB 3; Length 1035;  
Best Local Similarity 55.3%; Pred. No. 0.36;  
Matches 73; Conservative 0; Mismatches 59; Indels 0; Gaps 0;

QY 211 AACGGTCAACAGGAGCGCTGAGTCCCTTGAACGAGATGCTGATGCGATGCGAG 270  
DB 712 AGCGAAGACAGGCGCGCTCACCGGCTGCTGCAAAAGCTGATGAAGATCCTGAACGG 771

QY 271 CTGATGCAACAGCGCGCGGATGCGGCGGCGGATGCGGCGGCTGCGTCAACAGCAGCTG 330  
DB 772 CTGATGCAACAGCGGATGCGGCGGCGGATGCGGCGGCTGCGTCAACAGCAGCTG 831

QY 331 GCGGCGCAACGCC 342  
DB 832 AAGGGTCCCGC 843

RESULT 13  
US-09-086-118-28

QY 271 CTGATGCAACAGGAGCGCGCTGAGTCCCTTGAACGAGATGCTGATGCGATGCGAG 330  
DB 772 CTGATGCAACAGGAGCGCGCTGAGTCCCTTGAACGAGATGCTGATGCGATGCGAG 831  
QY 331 GCGGCGCAACGCC 342  
DB 832 AAGGGTCCCGC 843

## RESULT 12

US-09-013-587-8  
Sequence 8, Application US/09013587  
Patent No. 6277814

GENERAL INFORMATION:  
APPLICANT: Qiu, Dewen  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Beer, Steven V.  
TITLE OF INVENTION: ENHANCEMENT OF GROWTH IN PLANTS  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/013,587  
FILING DATE:

CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/036,048  
FILING DATE: 27-JAN-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/1501  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:  
LENGTH: 1035 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)

US-09-013-587-8  
Query Match 11.0%; Score 37.6; DB 3; Length 1035;  
Best Local Similarity 55.3%; Pred. No. 0.36;  
Matches 73; Conservative 0; Mismatches 59; Indels 0; Gaps 0;

QY 211 AACGGTCAACAGGAGCGCTGAGTCCCTTGAACGAGATGCTGATGCGATGCGAG 270  
DB 712 AGCGAAGACAGGCGCGCTCACCGGCTGCTGCAAAAGCTGATGAAGATCCTGAACGG 771

QY 271 CTGATGCAACAGCGCGCGGATGCGGCGGCGGATGCGGCGGCTGCGTCAACAGCAGCTG 330  
DB 772 CTGATGCAACAGCGGATGCGGCGGCGGATGCGGCGGCTGCGTCAACAGCAGCTG 831

QY 331 GCGGCGCAACGCC 342  
DB 832 AAGGGTCCCGC 843

## RESULT 13

US-09-086-118-28



Sequence 28, Application US/09086118  
Patent No. 6593107  
GENERAL INFORMATION:  
APPLICANT: Laby, Ronald J.  
APPLICANT: Beer, Steven V.  
APPLICANT: Wei, Zhong-Min  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES  
TITLE OF INVENTION: THEREOF  
NUMBER OF SEQUENCES: 30  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/086,118  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/048,109  
FILING DATE: 30-MAY-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION/DOCKET NUMBER: 19603/1301  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 28:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1035 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
US-09-086-118-28  
Query Match  
Best Local Similarity 11.0%; Score 37.6; DB 4; Length 1035;  
Matches 73; Conservative 0; Mismatches 59; Indels 0; Gaps 0;  
QY 211 AACGGTCAACAGGAGGCGCTGAGTCGCTTACGCGAGATGCTGATGCGAGATCGTGATGCGAG 270  
Db 712 AGCGAGACCGAGGCGGCTTACCGGCTGCTGCAAAAGCTGATGAGATCCTGAACGG 771  
QY 271 CTGATGAGAACCGAGGCGGCGGCGATGCGGCGGCTGCGGTTCGGTCAACAGCAGCGCTG 330  
Db 772 CTGCTGAGATGATGACGAGGCGGCTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCTG 831  
QY 331 GCGGCGAACGCC 342  
Db 832 AAGGGTCCCGC 843  
RESULT 14  
US-09-431-614-16  
Sequence 16, Application US/09431614  
Patent No. 6624139  
GENERAL INFORMATION:  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Schading, Richard L.  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR-INDUCED STRESS  
TITLE OF INVENTION: RESISTANCE  
FILE REFERENCE: 21829/41 (EBC-003)  
CURRENT APPLICATION NUMBER: US/09/431,614

CURRENT FILING DATE: 1999-11-02  
EARLIER APPLICATION NUMBER: 60/107,243  
EARLIER FILING DATE: 1998-11-05  
NUMBER OF SEQ ID NOS: 18  
SOFTWARE: Patent In Ver. 2.0  
SEQ ID NO 16  
LENGTH: 1035  
TYPE: DNA  
ORGANISM: Pseudomonas solanacearum  
US-09-431-614-16  
Query Match  
Best Local Similarity 11.0%; Score 37.6; DB 4; Length 1035;  
Matches 73; Conservative 0; Mismatches 59; Indels 0; Gaps 0;  
QY 211 AACGGTCAACAGGAGGCGCTGAGTCGCTTACGCGAGATGCTGATGCGAGATCGTGATGCGAG 270  
Db 712 AGCGAGACCGAGGCGGCTTACCGGCTGCTGCAAAAGCTGATGAGATCCTGAACGG 771  
QY 271 CTGATGAGAACCGAGGCGGCGGCGATGCGGCGGCTGCGGTTCGGTCAACAGCAGCGCTG 330  
Db 772 CTGCTGAGATGATGACGAGGCGGCTGCGGCGGCGGCGGCGGCGGCGGCGGCTG 831  
QY 331 GCGGCGAACGCC 342  
Db 832 AAGGGTCCCGC 843  
RESULT 15  
PCT-US96-08819-8  
Sequence 8, Application PC/TUS9608819  
GENERAL INFORMATION:  
APPLICANT: Cornell Research Foundation, Inc.  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED  
TITLE OF INVENTION: RESISTANCE IN PLANTS  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US96/08819  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/475,775  
FILING DATE: 07-JUN-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION/DOCKET NUMBER: 19603/10051  
REFERENCE/DOCKET NUMBER: 19603/10051  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1035 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
PCT-US96-08819-8  
Query Match  
Best Local Similarity 11.0%; Score 37.6; DB 5; Length 1035;  
Matches 73; Conservative 0; Mismatches 59; Indels 0; Gaps 0;

Thu Jun 24 08:51:04 2004

Matches	73;	Conservative	0;	Mismatches	59;	Indels	0;	Gaps	0;
QY	211	AACGGTCAACAGGAGCGCTGAGTCCGTTGACCGAGATGCTGATGCGATGCGATGCGAG	270						
Db	712	AGCGAAGACCGAGGCGCGCTTACCGGCGTCTGCAAAAGCTGATGAAGATCCTGAACGGG	771						
QY	271	CTGATCGNAGAACGAGGCGCGCGCATGGCGGTTCGGTCAACAGCAGCCTG	330						
Db	772	CTGGTGAGATGATGCGAGCAAGGCGGCTCGCGCGCGGCAACGAGGCGCAGGCGGCTCG	831						
QY	331	GGCGGCAACGCC	342						
Db	832	AGGGTGCCGGC	843						

Search completed: June 23, 2004, 11:52:06  
Job time : 68 secs